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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/541,790	05/01/2006	Stefan Mueller-Weinfurtner	MUELLER=2	4149
	7590 12/28/200 D NEIMARK, P.L.L.C	EXAMINER		
624 NINTH ST		MILLS, DONALD L		
SUITE 300 WASHINGTON, DC 20001-5303			ART UNIT	PAPER NUMBER
			2462	
			MAIL DATE	DELIVERY MODE
			12/28/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/541,790	MUELLER-WEINFURTNER ET AL.			
Office Action Summary	Examiner	Art Unit			
	DONALD L. MILLS	2462			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING DESTRUCTION OF THE MORE IN THE MAILING DESTRUCTION OF THE MORE IN THE MORE	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be timed will apply and will expire SIX (6) MONTHS from the text of the course the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on 23 (2a) This action is FINAL . Since this application is in condition for allowated closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro				
Disposition of Claims					
 4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-20 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) accomposition and accomposition and accomposition and accomposition in the second and accomposition are declaration in the second accomposition and accomposition are declaration as a second accomposition and accomposition are declaration as a second accomposition and accomposition are declaration as a second accomposition accompo	cepted or b) objected to by the E e drawing(s) be held in abeyance. See ction is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary				
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

DETAILED ACTION

Claim Rejections - 35 USC § 101

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

2. Claims 1-20 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Regarding claims 1-20, the claims are directed to non-statutory subject matter. The claims recite a mere calculation without any useful, tangible and tangible result. For example, claim 1, recites computing, from a signal received over the channel in a receiver, a set of estimated Channel Transfer Factors (CTF's), where v is the subchannel number, calculating, for a predetermined strictly positive integer d, a correlation factor C_d representing the correlations, both in amplitude and in phase, between pairs of said computed CTF estimates, and estimating, in said receiver, the time-dispersion of said channel using the calculated correlation factor C_d . The claim in and of itself does not relate to a material transformation or anything other than the mere operation of a mathematical formula. The claims fail to utilize the calculation is such a manner to functionally or structurally affect a system, in essence the "time-dispersion" is merely calculated and nothing more. The claims do not utilize the calculation to create a novel and useful structure created with the aid of a calculation, instead the claims represent nothing more than the manipulation of mathematical constructs and represents a mere abstract idea. While abstract ideas employed to perform a real-world function may be patentable, the claims fail to set forth any relevant function and the claims fail to produce a beneficial result.

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Response to Arguments

3. Applicant's arguments with respect to claims 1-20 have been considered but are moot in

view of the new ground(s) of rejection.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to DONALD L. MILLS whose telephone number is (571)272-3094.

The examiner can normally be reached on 9:00 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Seema Rao can be reached on 571-272-3174. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Donald L Mills/

Primary Examiner, Art Unit 2462

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